

THAT WHICH IS CLAIMED IS:

SUB
A1 1. ~~An integral source material having at least one nuclide that is activatable by exposure to radiation, the nuclide is a chemically bound constituent of a polymer of the integral source material, wherein the integral source material is configured before activation to provide a device.~~

2. ~~The integral source material of Claim 1 wherein the device is selected from the group consisting of test objects, large area sources, radioactive enclosures, flood sources, nuclear imaging devices, shrouds and excitation sources for energy-dispersive fluorescence analysis.~~

3. The integral source material according to Claim 1, wherein the polymer is selected from the group consisting of polypropylene, polyethylene terephthalate, nylon, acrylates, polyurethane, polyphenylene oxide blends, polyphenylsulfone, polysulfone, polyether sulfone, polyphenylene sulfide, phenyletheretherketone, polyetherimide, polyphenylmetallosiloxane, fluorine containing polyphosphazenes and liquid crystal polymer and blends and combinations thereof.

4. The integral source material according to Claim 1, wherein the nuclide is selected from the group consisting of one or more of Li, Na, C, F, Al, P, S, Cl, Ca, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ge, Sr, Y, Zr, Mo, Tc, Rh, Pd, I, Cs, Ba, La, Ce, Eu, Gd, Re, Ir, Au, Hg, Pb, Bi, Po and Am.

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A2